Development of a Model for Assessing Urban Public Transport Level of Service in Cities of Developing Nations

David A. Mfinanga, Meshack O.A. Ochieng'

Abstract

This paper summarises a research study that was conducted within the city of Dar es Salaam whose main goal was to formulate an all-inclusive revealed preference model for assessing urban public transport system Level of Service (LoS) as perceived by passengers in cities of developing nations. Using HCM guidelines, the model has been used to derive the urban public transport Level of Service thresholds, and a further description of the attributes of the LoS letter grades A to F. The model assigns Level of Service thresholds for urban public transport system using "Equivalent Travel Time" which represents a quantification that takes into consideration all the urban transport journey episodes/components and includes both physical relationships and subjective assessments.